



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/687,244	10/12/2000	Shing Mark Lin	ADAPP169	1180
7590	12/30/2005		EXAMINER	
Joe A. Brock II, Esq. MARTINE PENILLA & KIM, LLP Suite 170 710 Lakeway Drive Sunnyvale, CA 94085			TRUONG, LECHI	
			ART UNIT	PAPER NUMBER
			2194	

DATE MAILED: 12/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/687,244	LIN ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	LeChi Truong	2194	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 11 October 2005.
- 2a) This action is **FINAL**.                  2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1,2 and 4-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1,2 and 4-20 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.



WILLIAM THOMSON  
SUPERVISORY PATENT EXAMINER

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_\_.

## **DETAILED ACTION**

1. Claims 1-2, 4-20 are presented for the examination. Claim 3 is cancelled.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCarty et al (US. Patent 5,954,796) in view Stone (US. Patent 5,784,555).

9. As to claim 1, McCarty teaches the invention substantially as claimed including: a data structure (an FC-specific LOG Function information structure 530, col 8, ln 27-67), a Fibre Channel attribute value (port\_name 535C, its unique Node\_Name 535 B, Decice\_Function 535 D, Device\_type 535 E, col 8, ln 27-67), a Fiber channel controller (col 1, ln 30-35), a functionality of a Fibre channel Controller (the LOG Function, col 8, ln 27-67), user modification of the Fibre Channel attribute value (a configuration change in the FC environment 220 and it would make any necessary changes in the FC information structure 530, col 9, ln 1-15), a modification request( link element 525 comprise a BUS\_TARGET\_LUN nexus , col 8, ln 40-67/ the SCSI command protocol include a LUN, col 3, ln 15-37), modification ( the mapping between the link element 525 and the FC information structure 530, col 8, ln 40-67), a code

segment/ an Operating System Module(OMS), the OMS ( the higher level OS-compatible interface standard, col 8, ln 40-67, ln 1-5/the OS environment, col 4, ln7-20/col 8, ln 27-67), the OSM being providing the modification request ( these link elements will presented to the upper level software structures that are present in the OS environment for proper commands , col 10, ln 1-5), operation of the Fiber channel( the mapping, col 8, ln 27-67), altering the functionality of the Fibre Channel(FC-specific information structures associated with unique OS-compatible link elements are suitably updated, col 9, ln 1-44).

10. McCarty does not explicit teach the term “ the code segment is configured to directly alter the attribute value alter without translating the modification request into Fibre Channel commands to facilitate the alteration of the attribute ”. However, Stone teaches the code segment is configured to directly alter the attribute value alter without translating the modification request into Fibre Channel commands to facilitate the alteration of the attribute (the window 95 operating system used in the illustrated computer system 20, the network software is configured by installing software modules such as device driver... col 8, ln 15-25/ the Windows 95 operating system includes functions accessed by calls to a set of system application programming interfaces( APIs) which allow querying and deleting system registry entries , col 8, ln 25-29/ In the windows 95 operating system , the network protocols 60-62 are bound to the network devices 54-55 by setting entries in a system registry associated with the device drivers 54-55, col 9, ln 42-48).

11. It would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine the teaching of McCarty and Stone because Stone’s the code segment is configured to directly alter the attribute value alter without translating the modification request

Art Unit: 2194

into Fibre Channel commands to facilitate the alteration of the attribute would improve the efficiency of McCarty's system by allowing the automated process and system to correct the configuration at the time of use to prevent failure of the Internet connection or unknown risk to security .

12. **As to claim 2,** McCarty teaches the modification request (the upper – level commands, col 8, ln 60-67).

13. Claims 4-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCarty et al (US. Patent 5,954,796) Stone (US. Patent 5,784,555), as applied to claim 1 above, and further in view of APA (Admitted Prior Art).

14. **As to claim 4,** McCarthy and Stone do not teach a Fibre Channel Hardware Interface Module. However, APA teaches a Fibre Channel Hardware Interface Module (CHIM 106, page 5, ln 10-21).

15. It would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine the teaching of McCarty, Stone and APA because APA's " Fibre Channel controller" would improve the efficiency of McCarty and Stone 's systems by checking the presence of adapter hardware, initialize the adapter, and access connected devices.

16. **As to claim 5,** APA teaches the modification request is received by the FCHIM (the OSM 104 translates the command into an operating system independent CIM, col 4, ln 18-21/the CHIM 106 ... receives CHIM commands and translates the CHIM commands into commands for the SCSI controller, page 5, ln 8-18).

17. **As to claim 6**, McCarthy teaches the function of the Channel controller (FC-specific information structures associated with unique OS-compatible link elements are suitably updated, col 9, ln 1-44/ col 8, ln 28-67), the Fibre Channel attribute value (port\_name 535C, its unique Node\_Name 535 B, Decice\_Function 535 D, Device\_type 535 E, col 8, ln 27-67)

18. **As to claim 7**, it is an apparatus claim of claim 1; therefore, it is rejected for the same reason as claim 1 above. In addition, McCarthy teaches the Fibre Channel attribute values (port\_name 535C, its unique Node\_Name 535 B, Decice\_Function 535 D, Device\_type 535 E, col 8, ln 27-67/ col 7, ln 45-67), a data type value (0\_0\_0/ 0\_1\_0, col 9, ln 45-67), an operating system depend code module (the higher level OS-compatible interface standard, col 8, ln 40-67, ln 1-5/ the OS environment, col 4, ln 7-20/col 8, ln 27-67) and APA teaches the operating system as the operating system independent (CHIM 106, page 5, ln 1-18).

19. **As to claim 8**, McCarthy teaches the operating system dependent code module (the higher-level OS-compatible interface standard, col 8, ln 40-67, ln 1-5/ the OS environment (col 4, ln 7-20/col 8, ln 27-67).

20. **As to claim 9**, McCarthy teaches the OSM is further capable of providing operating system independent commands (these link elements will be presented to be the upper level software structures that are present in the OS environment for the proper commands, col 10, ln 1-5).

21. **As to claim 10**, APA teaches CHIM 106(page 5, ln 1-18).

22. **As to claims 11, 12**, they are apparatus claims of claims 5, 6; therefore, they are rejection for the same reasons as claims 5 and 6.

23. **As to claim 13**, McCarthy teaches a Fibre Channel maximum port value (port name, col 7, ln 45-67/ col 8, ln 40-67).

24. **As to claim 14**, McCarthy teaches a Fibre Channel Logical Unit Number (LUN)(a BUS\_TARGET\_LUN, col 9, ln 45-67).

25. **As to claim 15**, McCarthy teaches a Fibre Channel Arbitrated Loop value (an Arbitrated Loop Physical Address, col 7, ln 45-67).

26. **As to claim 16**, it is an apparatus claim of claim 1; therefore, it is rejected for the same reason as claim 1 above. In addition, McCarty teaches a profile data structure (an FC-specific LOG Function information structure 530, col 8, ln 27-67), a Fibre Channel attribute value (port\_name 535C, its unique Node\_Name 535 B, Decice\_Function 535 D, Device\_type 535 E, col 8, ln 27-67), an operating system depend code module (the higher level OS-compatible interface standard, col 8, ln 40-67, ln 1-5/ the OS environment, col 4, ln7-20/col 8, ln 27-67), altering the functionality of the Fibre Channel (FC-specific information structures associated with unique OS-compatible link elements are suitably updated, col 9, ln 1-44) and APA teaches an operating system independence code (CHIM 106, page 5, ln 1-18), the OSM 104 makes a series of calls to the MHIM 106 (page 5, ln 1-8) that allow the CHIM 106 communicate with the Fibre channel.

27. **As to claim 17**, APA teaches the OSM being capable of receiving operations system specific commands (the OSM 104 receives the operating system specific device access command, page 4, ln 17-21).

Art Unit: 2194

28. **As to claim 18,** APA teaches the OSM is further capable of providing operation system independent commands (the OSM 104 translates the command into an operating system independent, page 4, ln 17-27).

29. **As to claims 19, 20,** they are apparatus claims of claims 10, 11; therefore, they are rejected for the same reasons as claims 10, 11 above.

**Response to the argument**

29. Applicant's arguments filed 10/11/2005 have been considered but are moot in view of the new ground(s) of rejection. Applicant amended the claims. Stone's reference meets the amended claims.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LeChi Truong whose telephone number is (571) 272 3767. The examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomson, William can be reached on (571) 272 3718. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIP. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIP system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).

LeChi Truong

December 14, 2005



WILLIAM THOMSON  
SUPERVISORY PATENT EXAMINER